

ESCALANTE RIVER BASIN

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09338900 DEER CREEK NEAR BOULDER, UT

LOCATION.--Lat 37°51'12", long 111°21'16", in NW^{1/4}SE^{1/4}NE^{1/4} sec. 16, T. 34 S., R. 5 E., Garfield County, Hydrologic Unit 14070005, Grand Staircase Escalante National Monument, on right bank 150 ft downstream from Burr Trail crossing and 6.3 mi east of Boulder.

DRAINAGE AREA.--62.7 mi².

PERIOD OF RECORD.--Occasional low-flow measurements and annual maximums, water years 1959-74. September 2001 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,670 ft above NGVD of 1929, from topographic map. July 8, 1959 to September 30, 1974, crest-stage gage at site 160 ft downstream on left bank at datum 8.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,820 ft³/s, Aug 3, 1961, gage height, 14.00 ft, from rating curve extended above about 5 ft³/s on basis of slope-area measurements at gage heights 11.50 ft, 12.50 ft, and 14.00 ft (datum then in use); minimum daily, some flow in most years but dry on occasions.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,540 ft³/s, Sep 11, gage height, 7.90 ft; minimum daily discharge, 3.8 ft³/s, Jun 28, Jul 1, 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e4.8	17	9.8	10	9.2	8.8	6.7	5.7	4.8	3.8	4.0	4.7
2	e4.8	17	8.9	9.8	9.3	7.8	6.1	5.8	4.8	3.9	19	4.5
3	e4.9	18	8.8	10	9.4	8.2	6.0	5.8	4.9	4.5	6.3	4.6
4	4.8	18	9.4	10	9.2	9.6	6.0	5.7	4.8	4.4	4.6	4.7
5	5.0	19	10	9.9	9.5	11	6.0	5.6	4.6	4.3	4.3	4.6
6	5.0	18	10	10	9.4	10	5.9	5.6	4.5	4.2	4.4	5.3
7	5.2	17	8.7	10	9.5	9.5	6.0	5.5	4.3	4.0	4.3	49
8	5.6	9.7	9.9	11	9.7	9.2	6.0	5.4	4.2	4.0	e4.3	7.7
9	5.7	12	10	11	9.5	9.9	6.0	5.5	4.2	5.2	e4.3	5.6
10	5.6	11	10	10	9.6	11	6.0	5.5	4.4	4.4	e4.4	5.4
11	5.7	10	9.2	9.5	9.5	10	6.0	5.5	4.4	4.1	e4.3	72
12	5.8	10	9.4	11	9.5	11	6.2	5.4	4.4	4.0	e4.2	87
13	5.9	11	8.5	10	9.8	11	6.3	5.5	4.1	3.9	e4.2	34
14	5.9	10	7.8	9.5	9.8	10	6.0	5.5	4.2	4.1	e4.0	22
15	5.8	10	8.2	11	10	13	6.1	5.4	4.2	4.1	e4.0	7.5
16	e5.7	11	8.1	9.3	10	13	6.0	5.3	4.2	4.3	e4.1	8.4
17	e6.0	10	7.9	8.6	10	11	6.0	5.2	4.0	4.3	e4.2	14
18	e6.0	10	9.6	8.1	10	9.9	6.0	5.0	4.1	4.5	e4.4	7.8
19	e5.6	10	10	7.5	11	9.8	6.0	4.9	4.0	4.4	e4.0	7.5
20	e4.7	10	11	7.8	12	e9.8	6.2	4.9	4.1	4.3	e20	6.9
21	e4.6	9.4	11	8.6	12	9.9	6.4	5.0	4.0	4.5	e7.0	6.9
22	e5.3	9.3	10	9.5	10	9.8	6.2	5.1	4.0	4.2	4.6	6.4
23	e5.6	8.8	10	9.1	8.5	9.5	6.0	5.3	4.1	4.1	4.5	5.7
24	e6.0	9.1	10	8.2	8.4	7.1	5.9	5.3	3.9	4.2	4.7	5.3
25	e6.2	12	10	8.8	8.2	6.7	6.0	5.3	3.9	4.2	4.6	5.3
26	6.6	10	10	9.5	8.5	7.1	6.0	5.2	3.9	5.0	4.6	5.3
27	6.8	8.7	10	9.9	10	7.4	6.0	5.1	3.9	7.0	4.3	5.2
28	6.7	8.2	10	10	10	7.6	5.8	5.1	3.8	4.5	4.4	5.6
29	8.9	7.9	10	9.9	---	12	5.7	5.0	3.9	4.2	4.5	55
30	16	8.8	11	9.9	---	6.8	5.8	4.9	3.9	4.0	4.4	8.4
31	19	---	10	9.2	---	7.7	---	4.9	---	3.9	4.6	---
MEAN	6.458	11.70	9.587	9.568	9.696	9.519	6.043	5.319	4.217	4.339	5.468	15.74
MAX	19	19	11	11	12	13	6.7	5.8	4.9	7.0	20	87
MIN	4.6	7.9	7.8	7.5	8.2	6.7	5.7	4.9	3.8	3.8	4.0	4.5

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2002, BY WATER YEAR (WY)

MEAN	6.494	11.70	9.587	9.568	9.696	9.519	6.043	5.319	4.217	4.339	5.468	15.74
MAX	6.49	11.7	9.59	9.57	9.70	9.52	6.04	5.32	4.22	4.34	5.47	15.7
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS

FOR 2002 WATER YEAR

WATER YEARS 2001 - 2002

ANNUAL MEAN	8.111	8.114
HIGHEST ANNUAL MEAN	8.11	2002
LOWEST ANNUAL MEAN	8.11	2002
HIGHEST DAILY MEAN	87	Sep 12 2002
LOWEST DAILY MEAN	3.8	Jun 28 2002
ANNUAL SEVEN-DAY MINIMUM	3.9	Jun 25 2002
10 PERCENT EXCEEDS	11	11
50 PERCENT EXCEEDS	6.2	6.2
90 PERCENT EXCEEDS	4.2	4.2

e Estimated

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09338900 DEER CREEK NEAR BOULDER, UT--Continued

